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JB	US-1	4,006,813	02/08/77	Rene Fluck					
	US-2	4,166,527	09/04/79	Earl F. Beezer					
	US-3	4,222,479	09/16/80	Dugan, et al.					
	US-4	4,294,344	10/13/81	Johannes D. var	Maanen		<u> </u>		
	US-5	4,450,950	05/29/84	James C. Foote,	Jr.				
	US-6	4,538,720	09/03/85	Jean-Louis Lim	ousin				
	US-7	4,552,261	11/12/85	Raudat, et al.					
	US-8	4,584,944	04/29/86	Clarence A. Del	nne				
	US-9	4,653,630	03/31/87	Anna Bravin					
	US-10	4,679,685	07/14/87	Kenji Inoko					
JB	US-11	4,702,365	10/27/87	Chong-Il Pak					
Fore	ign Pater	nt Documents						Tı	ranslatio
		Document Number	Date	Coun	try	Class	Subclass	Yes	No
JB	F-1	JP 02098157 A	04/10/90	Japa	n			Abstract	
JВ	F-2	JP 00062949 A	02/29/00	Japa	n			Abstract	
JB	F-3	JP 00335799 A	12/05/00	Japa	n			Abstract	
JB	F-4	WO 97/09256 A1	03/13/97	WIP	0			Abstract	
JB	F-5	WO 00/69724 A1	11/23/00	WIP	0			Х	
ОТІ	IER ART	(Including Author	, Title, Date	, Pertinent Pages	, Etc.)				
JB	OT-1	Virvalo, T.K., "Cy 55-57.	linder Speed	Synchronization	n", Dec. 1978	, Hydraulics and	Pneumatics,	Vol. 31, No. 1	2, pages
JВ		Cheng, et al., "Ada April 1990, IEEE 7						n Intelligent W	orkcell"

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

Date Considered

Shih-Hung Li, et al. "An Ultrahigh Speed Assembly Robot System. Part I. Design", 1994, Proceedings 1994

/James Bidwell/ (02/21/2007)

Japan-U.S.A. Symposium on Flexible Automation - A Pacific Rim Conference, Vol. 2, pages 465-72.

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U.S. Depa	rtment o	Docket No 6900/Y0	o.: I/SYNX/SYNX	/JW	Serial N	No.: 10/650,310				
LIST C		VANT ART CITI several sheets if r	Applicant Michael R	s: L. Rice, et al.						
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JB	US-12	4,708,727	11/24/87	Cardenas-Franco	, et al.				-	
	US-13	4,720,006	01/19/88	Harald Lenherr						
	US-14	4,750,605	06/14/88	Brems, et al.						
	US-15	4,852,717	08/01/89	Ross, et al.						
	US-16	4,901,843	02/20/90	Jeffrey A. Lashy	ro					
	US-17	4,921,092	05/01/90	Crawford, et al.						
l	US-18	5,052,544	10/01/91	David L. Anders	on					
	US-19	5,092,450	03/03/92	Schommartz, et a	al.					
	US-20	5,123,518	06/23/92	Ernest H. Pfaff						
	US-21	5,341,915	08/30/94	Cordia, et al.						
JB	US-22	5,560,471	10/01/96	Prochut, et al.						
Foreig	gn Patent	Documents					,		Transla	tion
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JB	F-6	EP 0717717 B1	07/07/99	EPO					х	
	F-7	EP 00735927 B1	11/03/99	EPO					Abstract	
	F-8	EP 00912426 B1	08/09/00	EPO					Abstract	
	F-9	EP 0 663 686 A1	07/19/95	EPO					Х	
JB	F-10	EP 0 365 589 B1	09/23/92	EPO)				х	
ОТНІ		(Including Author								
JB		Roberts, et al., "F Bulk Materials St	orage, Hand	lling and Transpo	rtation, page	es 153-159.				
JB	OT-5	Saigo, et al., "Dri 73, No. 11, pages					uji Jih	o (Fuji El	ectric Journ	al), Vol.
JB	OT-6	Saigo, K., "Varial Vol. 73, No. 11, p)0, Fuj	i Jiho (Fu	ji Electric J	ournal),
Examiner			Date Consid	lered /James	s Bidwel	1/ (02/21/	2007)		
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		US-24		09/02/97	Ohkura, et al.			+		_			
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		US-29	5,887,701		Mario Spatafora			+		-			
		US-30			Mueller, et al.			+-			_		
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		US-32			Lecomte, et al.			-					
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- 01		L		03/00/01	µ 101, 01 al.		<u> </u>						
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JB		F-11	EP 0 277 536 A	08/10/88	EPO					Abstract			
JB		F-12	JP 63-020151	01/27/88	Japar	l				Abstract			
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JB	US-45	5,382,127	01/17/95	Garric et al.						
1	US-46	5,388,945	02/14/95	Garric et al.						
	US-47	5,818,716	10/06/98	Chin et al.						
	US-48	5,612,886	03/18/97	Weng						
	US-49	5,976,199	11/02/99	Wu et al.						
	US-50	5,256,204	10/26/93	Wu						
	US-51	5,110,249	05/05/92	Arthur E. Norm	an					
	US-52	6,036,426	03/14/00	Gary Hillman						
	US-53	6,183,186	06/06/01	Peltola et al.						
1	US-54	4,401,522	08/30/83	Buschow et al.						
JB	US-55	4,534,843	08/13/85	Johnson et al.						
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		US-57	4,650,264		03/17/87	Dahnert							
		US-58	4,775,046		10/04/88	Gramarossa e	et al.						
	<u>-</u>	US-59	6,309,279		07/10/01	Bowman et a	1.						
		US-60	6,235,634		05/22/01	Law et al.							
		US-61	2002/00902	82	07/11/02	Bachrach				11.55 =-			
		US-62	2003/00104	49	01/16/03	Gramarossa e	et al.						
		US-63	5,460,478		10/08/95	Akimoto et a	l.						
		US-64	5,957,648		09/08/99	Bachrach							
		US-65	6,826,986		12/08/04	Lim et al.							
J	В	US-66	2004/0062633	Al	04/08/04	Rice et al.							
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U.S.	Patent Doc	uments										
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JВ	US-67	2005/009511	0 A1	05/08/05	Lowrance	et	al.					
	US-68	2004/008153	8 A1	04/08/04	Rice et al.							
	US-69	2004/00825	46	04/08/04	Elliott et al	l.						
	US-70	2004/01933	00	09/08/04	Rice et al.							
	US-71	2004/00815	45	04/08/04	Elliott et al	l.						
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	US-74											
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JB	US-I	6,579,052 B1	06/17/03	Bonora et al.								
	US-2	5,980,183	11/09/99	Fosnight								
	US-3	4,805,759	02/21/89	Rochet et al.								
	US-4	5,332,013	07/26/94	Sugita et al.								
	US-5	5,570,990	11/15/96	Bonora et al.								
	US-6	6,524,463	02/25/03	Gramarossa et	al.		1			-		
	US-7	5,668,056	09/16/97	Wu et al.								
	ปร-8	2004/0076496	04-2004	Elliott et al.			1		1			
	US-9	2005/0273191	12-2005	Englhardt et al	,							
	US-10	2004/0191030	09-2004	Rice et al.								
JB	US-11	6,440,178	08-2002	Berner et al.				•				
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